

# User manual

AUTO FOCUS ZOOM CAMERA



## Warning

**WARNING:** TO prevent fire or shock hazard, do not expose to unit to rain or moisture.



The symbol is intended to alert the user to the presence of important operating and maintenance (servicing) Instructions in the literature accompanying the appliance



The symbol is intended to alert the user to the presence of uninsulated (dangerous voltage) within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons

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## Warning

**CAUTION:**  
**TO PREVENT ELECTRIC SHOCKS**  
**AND RISK OF FIRE HAZARDS, DO**  
**NOT USE OTHER UNSPECIFIED**  
**POWER SOURCE**

**Warning:** This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference in which case the user will be required to correct the interference as his own expense.

**Caution:** Any changes or modification in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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## Auto camera specification cautions

1. Do not attempt to disassemble the camera. In order to prevent electric shock, do not remove screws or cover. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
2. Handle the camera with care. The camera could be damaged by improper handling or storage.
3. Do not expose the camera to rain or moisture, or try to operate it in wet areas. Take immediate action if the camera becomes wet. Turn the power off and refer servicing to qualified service personnel. Moisture can damage the camera and also create a danger of electric shock.
4. Do not use strong or abrasive detergents when cleaning the camera body. Use a dry cloth clean the camera when dirty. In case the dirt is hard to remove, use a mild detergent and wipe gently.
5. Never point the camera toward the sun. Whether the camera is used outdoors or not, never point it toward the sun. Use caution when operating the camera in the vicinity of spot lights or other bright reflecting objects.
6. Do not operate the camera beyond its Temperature, humidity or power source ratings. Do not use the camera in an extreme environment where high temperature or high humidity exists. Use the camera under conditions where temperatures are between -10°C ~ +50°C, and humidity is below 85%. For the correct power supply, refer to the specification sheet.

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## Feature

- Hi-speed focus and zoom on real-time;
- Support PELCO-D/P, communicate by RS485
- Chinese/English menu;
- Sync by D/N;
- Low illuminance for night view;
- HLC;
- 8 private masks;
- Mirror;
- DSP option available;
- IR-Cut (optional).

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## Technical parameter ( I )

Zoom	27X Optional
Signal System	PAL/NTSC Optional
CCD	1/4" SONY CCD
Horizontal Resolution	650TV Line Available
S/N Ratio	50dB
Minimum Illumination	Color 0.01Lux W/B 0.001 Lux
Lens	3.9~85.8mm
Video Output	1.0Vp-p, 75Ω
Electronic Shutter	Auto
White Balance	Auto
IR-Cut	Optional
DSP	SONY Effio-E

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## Technical parameter ( II )

AGC	0~127
BLC	Off/HLC/BLC
HLC Level	000~255
D/N Switch	Protocol/Photoresistor/Sync
Focus	Auto/Manual
ID	000~255
Communication	RS485
Protocol	PELOC_D/P
Rate	2400bps/4800bps/9600bps Optical
LED Control	2 Group (TTL)Max: 5V
Power Supply	DC+9V~+12V±10%、4W

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## Menu operation instruction

- Press " IRI Open " or " M " to call the menu ; Press " IRIS Close " or select " Exit " to close menu;
- Press " Tele " or " T " and " Wide " or " W " to set the option;
- Press " Far " or " F " and " Near " or " N " to set the option;
- " ← " indicate that there is a submenu, press " Far/F " or " Near/N " to access submenu.

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## Interface

MENU	OPTION	REMARK
FOCUS	AUTO/PUSH AUTO	
ID DISPLAY	ON/OFF	
CAM ID	1-255	
PROTOCOL	PELCO D	☆
BAUD RATE	2400	☆
485 CONTROL	NORMAL/INV	
LED1	8	
LED2	15	
DSP SETTI	↵	SUBMENU
LANGUAGE	ENG	
RESET		
EXIT		

Both of PELCO\_D & PELCO\_P available, 2400bps/4800bps/9600bps.

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## DSP Submenu

MENU	OPTION	REMARK
SHUTTER	AUTO	☆ 1
WB MODE	AUTO	☆ 2
AGC	0~127	
DNR	ON/OFF	
BACKLIGHT	OFF/HLC/BLC	
HLC LEVEL	48	0-255
MIRROR	OFF/ON	
BRIGHTNESS	7	0-14
SHAPPENSS	8	0-15
MASK SETTING	↵	Submenu
COLOR		0-15
EXIT		

☆1 Electronic Shutter: auto, fixed, 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000

☆2 White Balance: auto, fixed, manual

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## Private Mask

MENU	OPTION	REMARK
AREA SEL	1-8	
AREA STATE	OFF/ON	
AREA COLOR	0-7	
WIDTH	0-128	
HEIGHT	0-144	
MOVE X	0-255	
MOVE Y	0-288	
RESET		
EXIT		

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### 1、Button

N NEAR, set option value up

F FAR, set the option value down

W WIDE, move the hilight option down

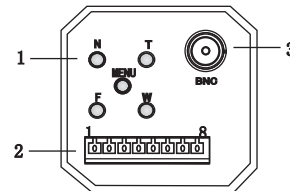
T TELE, move the hilight option up

MENU, call the menu or confirm the setting

### 2、Power and control interface

1. +12V Power
2. GND GND
3. COM COMM
4. FOCUS FOCUS
5. ZOOM ZOOM
6. MENU MENU
7. 485B RS485B
8. 485A RS485A

### 3、Video Output (BNC)

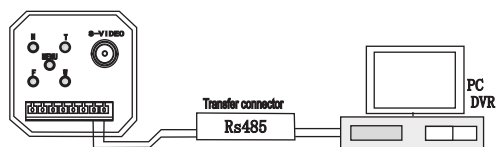


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## Rs485 Connection

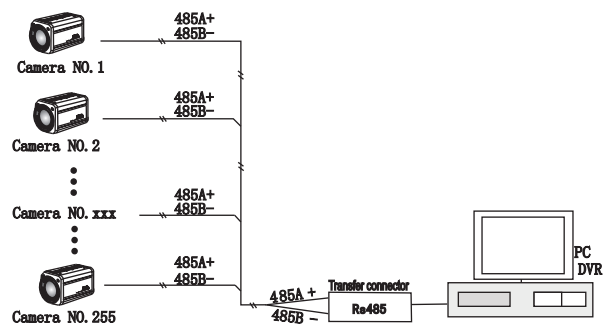
Camera can connect to PC or DVR's Rs485, which support PELCO D/P.

Connect Rs485 cable to Rs485+ and Rs485-.



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## Rs485 Control



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## Breakdown

Index	Breakdown	Reason	Check out
1	No images	Power disconnected	Connect power
		Power do not work	Change news power
2	No images	Video cable disconnected	Connect Video cable
3	Images Blured	Lens is not clear	clean the lens with soft cloths
4	Rs485 control do not work	Rs485 do not connect right	Switch Rs485+ and RS485-

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